



CLEAN COAL TODAY

A NEWSLETTER ABOUT INNOVATIVE TECHNOLOGIES FOR COAL UTILIZATION

INDEX OF ARTICLES

The *Clean Coal Today* newsletter is a quarterly publication prepared and distributed by the U.S. Department of Energy (DOE) Office of Coal & Power Systems (OC&PS). The newsletter objective is to inform OC&PS Program stakeholders of Clean Coal Power Initiative (CCPI), Power Plant Improvement Initiative (PPII), and Clean Coal Technology (CCT) Demonstration Program project status and activities, as well as other major OC&PS research and development (R&D), environmental, and international programs and activities. The newsletter features the latest R&D advances. It also reports on commercial spinoffs, and explores timely policy and environmental topics. Regular columns include News Bytes, R&D Milestones achieved by in-house and contractor researchers, and state clean coal undertakings. Periodic guest articles from stakeholders also are featured.

The newsletter reaches the broad customer/stakeholder audience including users and vendors of clean coal technologies, the coal R&D community, regulators and public policy makers, environmental organizations, the financial community, exporters, public interest groups, and the public in general. *Clean Coal Today* is distributed to over 4,000 domestic and international readers, and can be found on the Clean Coal Technology Compendium (<http://www.lanl.gov/projects/cctc>).

Clean Coal Today has provided readers with information on key actions that have brought coal into the limelight during the past year. The Administration continues to place coal in a prominent position in the U.S. energy mix, as evidenced by funding of the Power Plant Improvement Initiative launched in October 2000, and the Clean Coal Power Initiative, begun in the spring of 2001. Both expand upon the government's efforts in clean coal technology development and demonstration.

Beginning with Issue 1, published in 1990, this *Clean Coal Today Index of Articles* for quarterly issues 1-51 will assist readers to identify articles of interest in prior editions of *Clean Coal Today*. Pages 2-9 present articles on CCT projects, organized by category (Environmental Control Devices, Advanced Electric Power Generation, Coal Processing, and Industrial Applications). Pages 10-19 present all other articles by subject area.

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- SCR Holds Promise for Effective NO_x Control: CCT Projects Address Higher Costs, Limited U.S. Experience Summer 1992: 2
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Micronized Coal Reburning Demonstration for NO_x Control on a 175-MWe Wall-Fired Unit*New York State Electric and Gas Corp.*

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Enhancing the Use of Coals by Gas Reburning and Sorbent Injection*General Electric Energy and Environmental Research Corporation*

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- Milliken Clean Coal Project Under Way Summer 1996: 4
- Milliken CCT Demonstration Project Nears Completion Summer 1999: 5

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- SCR Holds Promise for Effective NO_x Control: CCT Projects Address Higher Costs, Limited U.S. Experience (SNOX™) Summer 1992: 1

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- Powerplant Award, Multiple Visits Precede JEA Dedication Fall/Winter 2002: 1

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- Colorado Fluid Bed Project Yields Both Power and Data Winter 1990: 1

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- Progress and Achievements Fall 1995: 4

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• First National Conference on Carbon Sequestration to be Held	Winter 2000: 8
• CO ₂ Capture RD&D Test Network Created	Winter 2000: 9

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• Gasification Technologies Workshop for Environmental Regulators	Summer 2001: 8
• Environmental Benefits Topical Report Published	Summer 2001: 6
• TVA Mined Land Becomes Carbon Sink	Fall 2001: 8
• Ongoing Research Updates PM _{2.5} Source Fingerprints	Winter 2001: 6
• DOE Examines Environmental Issues in By-Product Use	Spring 2002: 12
• Coalbed Methane — Enhancing Production and Sequestering CO ₂	Summer 2002: 7
• Clear Skies Initiative	Summer 2002: 8
• Brine Aquifers for CO ₂ Sequestration	Summer 2002: 10
• Weyburn Demonstrating New CO ₂ Storage, Monitoring, and Verification Techniques	Fall/Winter 2002: 12

— International Activities —

• DOE Report to Congress: CCT Expressions of Interest in Foreign Countries	Summer 1995: 7
• Polish Energy Experts Discuss Privatization (Fourth Annual CCT Conference)	Winter 1995: 7
• Clean Coal Outlook in Brazil	Spring 1996: 4
• FE Plays Key Role in WPF International Activities	Summer 1996: 7
• Clean Coal Goes to India	Summer 1996: 8
• U.S./Australia CCT Interests in Sync	Fall 1996: 4
• Fossil Energy Activity in China	Fall 1996: 5
• New China Laws to Reduce SO ₂	Fall 1996: 5
• International CCT Finance Seminar	Fall 1996: 7
• FE to Co-Chair New U.S.-India Coal Advisory Group	Winter 1996: 4
• Clean Coal Technology Workshop in India	Winter 1996: 5
• New Chinese CCT Project	Spring 1997: 4
• World Bank's Clean Coal Initiative	Spring 1997: 4
• U.S. AID Support in India	Spring 1997: 5
• U.S./Israel Technical Information Exchange	Spring 1997: 5
• DOE Signs Fossil Energy Annex with Italy	Summer/Fall 1997: 10
• DOE Supports Brazil's Quest for Coal	Summer/Fall 1997: 10
• DOE-Ukraine Clean Coal Task Force	Summer/Fall 1997: 10
• India Coal Washing Plant Receives Accolades	Summer/Fall 1997: 11
• DOE Sponsors CCT and Coal Utilization Workshop	Winter 1997: 9

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• DOE Supporting South Africa Energy Initiatives	Summer 1998: 11
• TDA Joins DOE In Supporting Brazil's Quest For Clean Energy	Summer 1998: 12
• Ukraine Conference Highlights Financial Recovery, Obstacles to Power Sector Development	Summer 1998: 12
• United Nations CCT Study Tour	Summer 1998: 13
• CCTs to be Evaluated for Philippines Palawan Province	Fall 1998: 9
• South Africa Project Recognized for Contributing to GHG Reduction	Fall 1998: 9
• Pittsburgh Coal Conference — Panel Highlights Asia Energy Picture	Winter 1998: 5
• APEC's Focus on Coal	Winter 1998: 8
• FE Supports Taiwan, China's CCT Projects	Winter 1998: 9
• Mexico FBC Options	Spring 1999: 8
• Multi-Fuel Reburning Holds Promise for Ukraine	Spring 1999: 8
• FE Outreach in Slovakia	Spring 1999: 9
• Fossil Energy Committed to International Energy Agency Goals	Spring 1999: 10
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• First Annual Meeting of U.S.-China Energy and Environmental Technology Center	Summer 1999: 9
• U.S./Japan Workshop Highlights R&D Cooperation	Summer 1999: 9
• U.S./Turkey Conference Highlights Fossil Energy	Fall 1999: 6
• FE Visits Russia on Information Exchange Mission	Fall 1999: 7
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• Support for International Energy Cooperation Programs	Winter 1999: 10
• FE Regulates Electricity Trade with Mexico and Canada	Winter 1999: 11
• Joint Statement Signed for Technical Cooperation to Strengthen Russian Coal Sector	Winter 1999: 11
• CoalTech '99 Conference in Jakarta, Indonesia	Winter 1999: 12
• Triboelectrostatic Separation Applied to Slovakian Brown Coal	Winter 1999: 12
• DOE Participates in International Conference in India	Spring 2000: 10
• FE Shares Gasification Technology Options with Japan	Spring 2000: 10
• FE Assists South African Utility in Evaluating CCTs	Summer 2000: 11

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• APEC Coal Flow Seminar: A Tool for Regional Stability	Fall 2000: 11
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• International CO ₂ Ocean Sequestration Field Experiment: 2000 Oceanographic Research Cruise	Winter 2000: 10
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• DOE Fossil Energy International World Wide Web Site	Spring 2001: 9
• New Coal Ash Newsletter Launched in India	Summer 2001: 12
• APEC Exports Group on Clean Fossil Energy	Summer 2001: 11
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• NETL to Support TCAPP Activities in China	Summer 2001: 13
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• Albany Research Center Hosts Indonesian Engineers	Fall 2001: 13
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• Engineers from India Trained in Utility Overhaul and Maintenance	Spring 2002: 8
• EETC Efforts for “Green” 2008 Beijing Olympics	Spring 2002: 9
• FE and Partners Explore Opportunities for CCTs in Thailand	Summer 2002: 11
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• IEA Group Drafts Fossil Fuels Zero Emissions Strategy	Summer 2002: 12
• China EETC Workshop and Plant Tours	Fall/Winter 2002: 8
• Climate Technology Award Goes to NETL Partner	Fall/Winter 2002: 9
• IGCC Briefings Completed Under U.S.–China Protocol	Fall/Winter 2002: 10
• IEA Committee Discusses Progress under Multiphase Flow Agreement	Fall/Winter 2002: 10

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| • DOE TechLine Automated Fax Service | Winter 1991: 6 |
| • FE International On-Line | Fall 1996: 6; Winter 1996: 5;
Spring 1997: 6; Summer 1998: 9 |
| • DOE Launches New Clean Coal Technology Web Site (CCT Compendium) | Spring 1998: 9; Fall 1999: 13 |
| • Coal-Related Web Sites | Spring 2000: 11 |
| • DOE Fossil Energy International World Wide Web Site | Spring 2001: 9 |

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| • In Memoriam: Co-Workers from METC; Co-Workers from PETC; Close Associates from the Industrial Community | Special
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| • FETC Celebrates 50th Anniversary | Summer 1998: 13 |
| • Research & Development News | Fall 1998: 10 |
| • FETC's "In-House" R&D | Winter 1998: 1 |
| • New National Laboratory Established | Spring 2000: 5 |
| • NETL Fine Particulate Research | Fall 2000: 8 |
| • NETL Hosts Sensors and Controls Workshop | Summer 2001: 9 |
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— Power Plant Improvement Initiative —

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| • Congress Enacts New Power Plant Improvement Initiative | Winter 2000: 1 |
| • Progress Under Two Clean Coal Funding Vehicles | Winter 2001: 7 |
| • First PPII Projects Successfully Negotiated | Fall/Winter 2002: 4 |

— Regulatory Issues —

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| • Power Generation Competition Threatens Clean Coal (Fourth Annual CCT Conference) | Winter 1995: 9 |
| • Domestic Regulatory Challenges (Fourth Annual CCT Conference) | Winter 1995: 11 |
| • Fossil Energy Role in Deregulation | Fall 1999: 10 |
| • Gasification Technologies Workshop for Environmental Regulations | Summer 2001: 8 |
| • Mercury/PM _{2.5} Conference Addresses Regulatory and Technology Issues | Fall/Winter 2002: 13 |

— State Activities —

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| • North Dakota Clean Coal Activity | Spring 1997: 12 |
| • Ohio Clean Coal Activity | Spring 1997: 12; Fall 1999: 12 |
| • SSEB Legislative Digest | Spring 1997: 13 |

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• Mississippi Supporting Innovative Eco-Industrial Complex (Red Hills EcoPlex)	Summer/Fall 1997: 7; Fall 1999: 12
• North Dakota Funding CCT Activities	Summer/Fall 1997: 7
• Illinois Supporting LEBS Project	Fall 1999: 12
• National Conference of State Legislatures/Utility Restructuring	Fall 1999: 12
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• Ohio, A Partner in Clean Coal	Fall/Winter 2002: 6

— Ultra-Clean Transportation Fuels Program —

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• Coal-Derived Fuels and the Ultra-Clean Transportation Fuels Initiative	Summer 1999: 3
• Fossil Energy's Transportation Fuels and Chemicals R&D Program	Spring 2000: 4
• Projects Advance Development of Ultra-Clean Transportation Fuels	Spring 2001: 3

— Vision 21 —

• FE Unveils Vision 21 Concept for Closing Carbon Cycle	Summer/Fall 1997: 13
• FE Organizes Separations Workshop for Vision 21 System	Fall 1998: 12
• Advanced Turbines — Building Blocks of Vision 21	Spring 1999: 2
• Fuel Cells — a Key to Vision 21	Summer 1999: 7
• Virtual Energy Plants of the Future	Summer 2001: 3
• Membrane Improvements Support Gas Separation	Winter 2001: 4
• NETL Hosts Virtual Simulation Workshop	Winter 2001: 10

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• NCC Touts Future Role of Coal	Summer/Fall 1997: 4
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• New Coal Stakeholder: Coal Utilization Research Council	Fall 1998: 8
• By-Products Consortium Funds R&D Proposals	Winter 1999: 4
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• UCIG Meets to Evaluate Coal-Derived Fuels Research	Winter 1999: 9
• United States Energy Association's Focus on Coal	Winter 1999: 6
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• Albany Research Center Supports FE Mission	Summer 2000: 4
• Power Systems Development Facility – Ensuring Clean Affordable Power for the 21 st Century	Fall 2000: 1

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• EPRI — Bringing Advanced Clean Coal Technology to Market	Spring 2002: 4
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